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## Patent Claims

- Convertible top for a convertible vehicle (2) having a 1. rear-end roof segment (6) and at least one other roof segment (7, 8), with the roof segments (6, 7, 8) being foldable in accordion fashion by a convertible top mechanism, and at least the rear-end roof segment (6) being designed with a flexible roof membrane (3) forming a soft top, which is accommodated between outer roof frame profiles (9, 10, 11) situated symmetrically in opposition with a vehicle longitudinal axis (33) and a dimensionally stable rear window (12), characterized in that the rear window (12) and the outer roof frame profiles (9). assigned to the rear-end roof segment (6) are converted into or out of a folded position in a movement in the same direction when the convertible top (1) is open [down].
- 2. Convertible top in accordance with Claim 1, characterized in that the rear window (12) and the outer roof frame profiles (9) of the rear-end roof segment (6) are arranged essentially parallel to one another during their movement into or out of the folded position.
- 3. Convertible top in accordance with Claim 1 or 2, characterized in that the roof segments (9, 10, 11) are situated essentially one

above the other in the folded position such that their curvature is facing in the same direction when the convertible top (1) is open [down].

- 4. Convertible top in accordance with Claim 3, characterized in that the roof segments (9, 10, 11) are situated one above the other in the folded position such that their curvature is facing a vehicle bottom (46).
- 5. Convertible top in accordance with any one of Claims 1 through 4, characterized in that an outer roof frame profile (9) of the rear-end roof segment (6) has a four-bar linkage mechanism (15) hinge-connected on two pivot points (13, 14) fixedly provided on the body and is connected to an articulated chain (16) which transmits a movement to the other roof segments (7, 8).
- 6. Convertible top in accordance with Claim 5, characterized in that the four-bar linkage mechanism (15) is designed with a first angled lever (17) and a second angled lever (18), each of which is hinge-connected to a pivot point (13, 14) fixedly provided on the body and to the outer roof frame profile (9).
- 7. Convertible top in accordance with Claim 6, characterized in that the pivot point (13) of the first lever (17) is fixedly provided on the body and is arranged so it is offset higher and toward the front in comparison to the pivot point (14)

of the second lever (18) which is fixedly provided on the body.

- Convertible top in accordance with any one of Claims 6 or
   7,
  - characterized in that a joint (20) is provided between the first lever (18) and the outer roof frame profile (9) in an area at the front in the up position of the convertible top (1) and a joint (20) is provided between the second lever (18) and the outer roof frame profile (9) in an area of the outer roof frame profile (9) at the rear in the top-up position (1).
- 9. Convertible top in accordance with any one of Claims 6 through 8, characterized in that the first lever (17) is formed at least approximately in a U shape and the second lever (18) is designed at least approximately in an L shape, with the link to the outer roof frame profile (9) and to the pivot points (13, 14) that are fixedly provided on the body being arranged in the area of a leg end of the lever (17, 18).
- 10. Convertible top in accordance with any one of Claims 6 through 9, characterized in that preferably the first lever (17) is connected to a drive (22) of the convertible top (1).
- 11. Convertible top in accordance with any one of Claims 5 through 10, characterized in that the rear window (12) is connected to the 4-bar linkage

mechanism (15) by an articulated strap (25) and is connected to the outer roof frame profile (9) via the flexible roof membrane (3).

- 12. Convertible top in accordance with any one of Claims 6 through 11,
  - characterized in that a main convertible top tension bar (4) is hinge-connected to the second lever (18).
- 13. Convertible top in accordance with any one of Claims 1 through 12, characterized in that outer roof frame profiles (10) which are assigned to at least one central roof segment (7) are rotated by means of a guide mechanism (21, 21') with respect to a position with the top (1) up by an axis at least approximately parallel to the vehicle longitudinal axis (33) and shifted in the direction of the center of the vehicle.
- 14. Convertible top in accordance with any one of Claims 1 through 13, characterized in that an outer roof frame profile (10) of the at least one central roof segment (7) is rotated by at least approximately 180° in the folded position in comparison to its position with the top (1) up.
- 15. Convertible top in accordance with any one of Claims 13 or 14, characterized in that the guide mechanism (21) of the outer roof frame profile (10) of the at least one central roof segment (7) has a

guide rod (29) coupled to the top mechanism, the outer roof frame profile (10) being guided axially on this guide rod so that it is rotated about its longitudinal axis in an axial movement with respect to the guide rod (29).

- 16. Convertible top in accordance with Claim 15, characterized in that the outer roof frame profile (10) with a sliding block (31) engages in a spiral groove (30) created in the guide rod (29), with the sliding block (31) being linked by a coupling element (32) to the kinematics of the convertible top mechanism.
- 17. Convertible top in accordance with Claim 16, characterized in that the coupling element (32) is connected first to the sliding block (31) in an axially fixed and rotationally movable manner and is connected second like a hinge to an articulated element (36) of an articulated chain (16) of the convertible top mechanism.
- 18. Convertible top in accordance with any one of Claims 13 or 14,

the guide mechanism (21) of the outer roof frame profile (10) of the at least one central roof segment (7) has a control rod (47) coupled to the convertible top mechanism and pivotable about a pivot axis (A4) running parallel to the transverse axis of the vehicle and to which the outer roof frame profile (10) is hinge-connected by a lever arrangement (49), with the lever arrangement (49) being pivotable about tilted axes (A1, A2, A3) which run at an angle to the pivot axis (A4) of the control rod (47) such

that the outer roof frame profile (10) is shifted in the direction of the center of the vehicle and is rotated with respect to an axis parallel to the longitudinal axis (33) of the vehicle when the control rod (47) is pivoted.

- 19. Convertible top in accordance with Claim 18, characterized in that the control rod (47) is connected in an articulated joint to the front roof segment (8), in particular to its outer roof frame profile (11) arranged on the respective side.
- 20. Convertible top in accordance with Claim 18 or 19, characterized in that a first pivot lever (50) of the lever arrangement (49) connects the outer roof frame profile (10) of the central roof segment (7) to the control rod (47) in an articulated joint, with the first pivot lever (50) being pivotable about a first tilted axis (A1) with respect to the outer roof frame profile (10) of the central roof segment (7) and being pivotable about a second tilted axis (A2) with respect to the control rod (47).
- 21. Convertible top in accordance with Claim 20, characterized in that the articulated connection of the first pivot lever (50) to the control rod (47) is arranged around the second tilted axis (A2) in an end area of the control rod (47) facing away from the connection of the control rod (47) to the front roof segment (6).
- 22. Convertible top in accordance with Claim 10 or 11, characterized in that the articulated connection of the first pivot lever (50) to

the outer roof frame profile (10) for pivoting about the first tilted axis (A1) is arranged in a rear-end area of the outer roof frame profile (10) in the up position of the convertible top (1).

- 23. Convertible top in accordance with any one of Claims 18 through 22,
  - characterized in that
    a second pivot lever (51) of the lever arrangement (49)
    connects the outer roof frame profile (10) of the central
    roof segment (7) to the front roof segment (8), in
    particular to its roof frame profile (11) arranged on the
    respective vehicle side, in an articulated joint, with the
    second pivot lever (51) being pivotable about a pivot point
    (D1) with respect to the outer roof frame profile (10) of
    the central roof segment (7) and being pivotable about a
    third tilted axis (A3) with respect to the front roof
    segment (8).
- 24. Convertible top in accordance with Claim 23, characterized in that the connection between the second pivot lever (51) and the outer roof frame profile (10) of the central roof segment (7) at the pivot point (D1) is designed by means of a ball joint (52).
- 25. Convertible top in accordance with Claim 23 or 24, characterized in that the connection of the second pivot lever (51) on the front roof segment (8) is arranged in a rear-end area of the outer roof frame profile (11) of the front roof segment (8).

26. Convertible top in accordance with any one of Claims 23 through 25,

characterized in that the connection of the second pivot lever (51) to the outer roof frame profile (10) of the central roof segment (7) is arranged in an area of the outer roof frame profile (10) of the central roof segment (7) that is at the front when the convertible top (1) is in the up position.

27. Convertible top in accordance with any one of Claims 13 through 26,

characterized in that the guide rod (29) or the control rod (47) is connected to the front roof segment (8) of the convertible top mechanism in an articulated joint at one end and to the articulated chain (16) at the other end.

28. Convertible top in accordance with any one of the preceding claims,

characterized in that
the articulated chain (16) has a first articulated bracket
(37) and a second articulated bracket (40) for the transfer
of movement, these articulated brackets opening and/or
closing in opposition to one another and being rotationally
connected to one another via a joint (43) arranged on the
outer roof frame profile (9) of the rear roof segment (6),
with the first articulated bracket (37) being hingeconnected to the first lever (17) of the 4-bar linkage
mechanism (15) and the second articulated bracket (40)
being hinge-connected to the guide mechanism (21, 21') of
the outer roof frame profile (10) of the central roof
segment (7).

29. Convertible top in accordance with any one or more of the preceding claims,

characterized in that

the outer roof frame profile (11) of the front roof segment (7) is preferably hinge-connected on the rear end of the connection of the guide mechanism (21, 21') for the outer roof frame profile (10) of the central roof segment (7) with a rod (44) leading to a front area of the outer roof frame profile (6) of the rear-end roof segment (9).